FLEYSHER, Solomon Meyyerovich; POTRYASAY, V.F., red.; SHIROKOVA, M.M., tekhn. red.

[New developments in tube-type radio receivers] Novoe v lampo-vykh radioveshchatel nykh priemnikakh. Moskva, Gosenergoizdat, 1961. 167 p. (Massovaia radiobiblioteka, no.417) (MIRA 15:7)

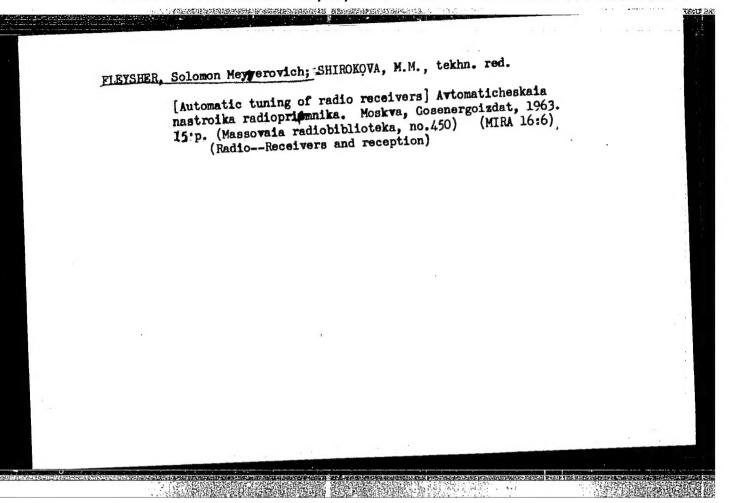
(Radio-Receivers and reception)

YAKUHASHK, Gagen [Jakubaschk, Hagon]; FLEYSHER, S.M.[translator];
KOROL'KOV, V.G., red.; YEMZHIN, V.V., tekhn. red.

[Magnetic tape-recording techniques]Praktika magnitnoi zvukozapisi. Moskva, Gosenergoizdat, 1962. 31 p. (Massovaia radiobiblioteka, no.435)

(MIRA 15:11)

(Magnetic recorders and recording)



"APPROVED FOR RELEASE: 06/13/2000 CIA

CIA-RDP86-00513R000413320012-5

1 59008-65 EEO-2/EMT(d)/EED-2 Pn-4/Pj-4

ACCESSION NR: AR5015995

UR/0058/65/000/005/H026/HD26

SOURCE: Ref. zh. Fizika, Abs. 5Zh187

AUTHOR: Fleysher, S. M.

TITLE: Interference immunity of a receiver for signals of unknown form

CITED SOURCE: Tr. uchebn. in-tov svyazi. M-vo svyazi SSSR, vyp. 21, 1964, 11-18

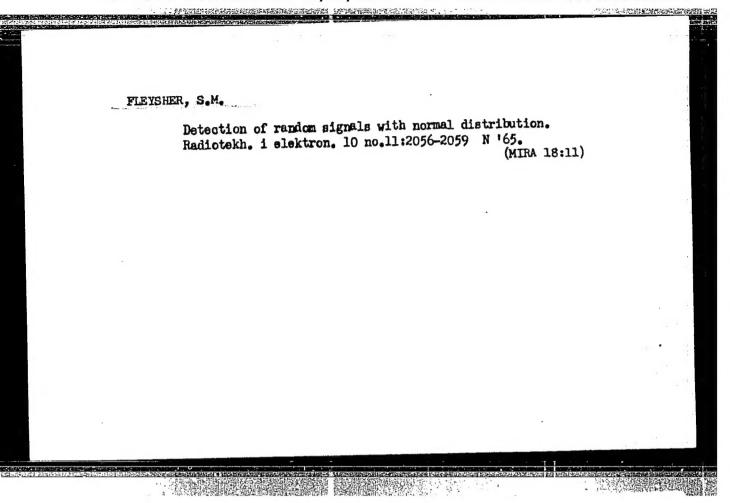
TOPIC TAGS: interference immunity, optimal receiver, self adaptive system, self organizing receiver

TRANSIATION: The author determines the interference immunity of an optimal selforganizing receiver for repetitive signals of unknown form, and also the thresholds necessary during each step of self adaptation. It is shown that the proposed linear receiver is sufficiently close to optimal.

SUB CODE: EC

ENCL: 00

Card 1/1/m



OURCE: Ref. sh. Radiotekhnika i elektrosvyaz', Abs. 8A47 UTHOR: Fleysher, S. M. ITLE: Noise rejection in a receiver of unknown-shape signals (ITED SOURCE: Tr. uchebn. in-tov svyazi. M-vo svyazi SSSR, 1964, vyp. 21, 1-18 OPIC TAGS: signal reception, signal noise separation, adaptive receiver, receiver after a celectivity, reflectivity, reflectivi	11555-66	EWT(d)/FSS-2	SOURCE CO	DDE: UR/0274	/65/000/008	/A005/A006
ITLE: Noise rejection in a receiver of unknown-shape signals (ITED SOURCE: Tr. uchebn. in-tov svyazi. M-vo svyazi SSSR, 1964, vyp. 21, 1-18 OPIC TAGS: signal reception, signal noise separation, adaptive receiver, receiver selectivity, radio receiver receiver is evaluated; the receiver thanges its structure and parameters according to the arriving signal shape in such thanges its structure and parameters according to the arriving signal shape in such thanges according to the arriving signal receiver as ensured. The receiver can perform both linear and square-law treatment of the arriving signal-and-noise mixture. When a signal with unknown arrival time is detected, the signal-absence decision is made if the likelihood-ratio logarithm is lower than a certain threshold. Initially, the optimal receiver presupposes the distribution of duration to be uniform and acts as a square-law detector with a						
ITLE: Noise rejection in a receiver of unknown-shape signals { ITED SOURCE: Tr. uchebn. in-tov svyazi. M-vo svyazi SSSR, 1964, vyp. 21, 1-18 OPIC TAGS: signal reception, signal noise separation, adaptive receiver, receiver affectivity, radio receiver, redor receiver is evaluated; the receiver realization. Operation of a self-organizing receiver is evaluated; the receiver changes its structure and parameters according to the arriving signal shape in such that, at each stage of its self-organization, an optimal or near-optimal reception is ensured. The receiver can perform both linear and square-law treatment of the arriving signal-and-noise mixture. When a signal with unknown arrival time is detected, the signal-absence decision is made if the likelihood-ratio logarithm is lower than a certain threshold. Initially, the optimal receiver presupposes the distribution of duration to be uniform and acts as a square-law detector with a	OURCE: F	lef. zh. Radiotekl	hnika i elektrosv	yaz', Abs. 8A	47	44
ITLE: Noise rejection in a receiver of unknown-shape signals { ITED SOURCE: Tr. uchebn. in-tov svyazi. M-vo svyazi SSSR, 1964, vyp. 21, 1-18 OPIC TAGS: signal reception, signal noise separation, adaptive receiver, receiver affectivity, radio receiver, redor receiver is evaluated; the receiver realization. Operation of a self-organizing receiver is evaluated; the receiver changes its structure and parameters according to the arriving signal shape in such that, at each stage of its self-organization, an optimal or near-optimal reception is ensured. The receiver can perform both linear and square-law treatment of the arriving signal-and-noise mixture. When a signal with unknown arrival time is detected, the signal-absence decision is made if the likelihood-ratio logarithm is lower than a certain threshold. Initially, the optimal receiver presupposes the distribution of duration to be uniform and acts as a square-law detector with a	UTHOR:	Fleysher, S. M.	4	:	-	B
ITED SOURCE: Tr. uchebn. in-tov svyazi. M-vo svyazi SSR, 1964, vyp. 21, 1-18 OPIC TAGS: signal reception, signal noise separation, adaptive receiver, receiver affectivity, reduce receiver, reduce receiver is evaluated; the receiver ranners its structure and parameters according to the arriving signal shape in such thanges its structure and parameters according to the arriving signal shape in such that, at each stage of its self-organization, an optimal or near-optimal reception as ensured. The receiver can perform both linear and square-law treatment of the arriving signal-and-noise mixture. When a signal with unknown arrival time is detected, the signal-absence decision is made if the likelihood-ratio logarithm is lower than a certain threshold. Initially, the optimal receiver presupposes the distribution of duration to be uniform and acts as a square-law detector with a	TTLE: No	ise rejection in a	receiver of unk	nown-shape sig	nals	
OPIC TAGS: signal reception, signal noise separation, adaptive receiver, receiver and parameters according to the arriving signal shape in such receiver and parameters according to the arriving or near-optimal reception receiver that, at each stage of its self-organization, an optimal or near-optimal reception receiver receiver can perform both linear and square-law treatment of the arriving signal-and-noise mixture. When a signal with unknown arrival time is received, the signal-absence decision is made if the likelihood-ratio logarithm is lower than a certain threshold. Initially, the optimal receiver presupposes the distribution of duration to be uniform and acts as a square-law detector with a	TED SOU	RCE: Tr. uchebi	n. in-tov svyazi.	M-vo svyazi	SSSR, 1964,	vyp. 21,
COPIC TAGS: signal reception, signal noise separation, adaptive receiver, receiver and parameters according to the arriving signal shape in such receiver and self-organization, an optimal or near-optimal reception and the receiver can perform both linear and square-law treatment of the receiver receiver receiver receiver receiver receiver receiver receiver receiver than a certain threshold. Initially, the optimal receiver receiver with a distribution of duration to be uniform and acts as a square-law detector with a			.183			2.3
IIDC: 621.391.17	PECEWEN ALL	TON: Operation	active y or	· · · · · · · · · · · · · · · · · · ·	e ovaluated:	the receiver
Card 1/2 UDC: 621.391.17	FRANSLAT changes its way that, a is ensured, arriving si detected, t	TION: Operation of structure and particle and stage of it. The receiver command-and-noise mand-and-absence.	of a self-organizerameters accorded as self-organization perform both sixture. When a sedecision is made	ing receiver is ling to the arri on, an optimal linear and squ signal with uni de if the likelil	evaluated; lving signal s l or near-opt are-law trea known arriva hood-ratio lo	imal reception timent of the il time is garithm is poses the
Card 1/2	FRANSLAT changes its way that, a is ensured, arriving si detected, t	TION: Operation of structure and particle and stage of it. The receiver command-and-noise mand-and-absence.	of a self-organizerameters accorded as self-organization perform both sixture. When a sedecision is made	ing receiver is ling to the arri on, an optimal linear and squ signal with uni de if the likelil	evaluated; lving signal s l or near-opt are-law trea known arriva hood-ratio lo	imal reception timent of the 1 time is garithm is noses the
	IRANSLAT changes its way that, a is ensured, arriving si detected, t lower than distributio	TION: Operation of structure and particle and stage of it. The receiver command-and-noise mand-and-absence.	of a self-organizerameters accorded as self-organization perform both sixture. When a sedecision is made	ing receiver is ling to the arri on, an optimal linear and squ signal with und de if the likelil the optimal receits as a square	evaluated; lving signal s l or near-opt lare-law trea known arriva hood-ratio lo liver presupp l-law detecto	imal reception timent of the 1 time is garithm is noses the
	IRANSLAT changes its way that, a is ensured, arriving si detected, t lower than distributio	TION: Operation of structure and particle and stage of it. The receiver command-and-noise mand-and-absence.	of a self-organizerameters accorded as self-organization perform both sixture. When a sedecision is made	ing receiver is ling to the arri on, an optimal linear and squ signal with und de if the likelil the optimal receits as a square	evaluated; lving signal s l or near-opt lare-law trea known arriva hood-ratio lo liver presupp l-law detecto	imal reception timent of the il time is garithm is poses the

ACC NR. AR50275	<u>i1</u>			
	ation and a simultane	ous evaluation of	f signal v, com	ponents in the
subsequent integra	T		tlans outhorns	al within
total signal v(t):	$v_l = \int_{0}^{T} V(t) \varphi_l(t) dt$, where	9,(t) are the ru	nctions orthogol	WILLIAM STATE
	m signal is ve	relyed in a combi	ined way, assum	ing that the
unchanged and, ul	timately, the receiv	er turns itsell in	(CO & TITTEL MOONS	.00.101
exactly known sig	nal. Bib 4, figs 2.			
SUB CODE: 17				
4 3				
	•			

"APPROVED FOR RELEASE: 06/13/2000

老师是我的07年1975年的1975年的1975年,**老师**是我们的1975年,

CIA-RDP86-00513R000413320012-5

EWT(d) SOURCE CODE: UR/0274/65/000/010/A004/A004 29583-66 ACC NR: AR6012289 AUTHOR: Fleysher, S. M. B TITLE: Reception of repetitive signals of unknown shape SOURCE: Ref. zh. Radiotekhnika i elektrosvyaz. Abs. 10A31 REF SOURCE: Tr. uchebn. in-tov svyazi. M-vo svyazi 6SSR, vyp. 22, 1964, 43-50 TOPIC TAGS: signal reception, radar receiver, radar detection ABSTRACT: A possibility is considered of designing a linear receiver for reception of unknown-shape signals with an additive noise as a background. The noise is assumed to be stationary with an arbitrary distribution and known mathematical expectation and dispersion. A block diagram is shown of a self-organizing receiver for which formulas are developed for the probabilities of false alarm and correct detection; the formulas show that the above linear receiver is close to the optimal but has an essentially simpler structure. In the beginning, the receiver performs a noncoherent optimal detection using an additional channel. After the first signal has been detected, the additional channel is turned off, and the control is carried out by the linearreceiver output. Three figures. Bibliography of 4 titles. L. S. [Translation of abstract] UDC: 621.391.16

ь 08328-67 SOURCE CODE: UR/0058/66/000/007/H013/H013 ACC NRI AR6033798 26 AUTHOR: Fleysher, S. H. TITLE: Total probabilities of errors in the discovery of a selforganizing receiving unit and characteristics of the self-organizing process SOURCE: Ref. zh. Fizika, Abs. 72h92 REF SOURCE: Tr. Nauchno-tekhn. konferentsii Leningr. elektrotekh. in-ta svyazi, vyp. 2, 1965, 39-50 TOPIC TAGS: error, receiver characteristic, error probability ABSTRACT: Correlations determining the total probabilities of errors in the appearance of a self-organizing receiver have been obtained. Some criteria characterizing the self-organizing process are introduced for examination. [Translation of abstract] SUB CODE: 17/ Card 1/1 nst

L 41110-66 ENT(d)/FSS-2

ACC NR: AR6014595

SOURCE CODE: UR/0274/65/000/012/A004/A004

B

AUTHOR: Fleysher, S. M.

TITIE: Optimal self-organized receiver and the conditional probabilities of detection errors

SOURCE: Ref. zh. Radiotekhnika i elektrosvyaz¹, Abs. 12A37

REF SOURCE: Tr. Uchebn. in-tov svyazi, vyp. 25, 1965, 11-18

THE RESERVE OF THE PROPERTY OF THE PERSON OF

TOPIC TAGS: radio receiver, interference reduction

ABSTRACT: The structure and probability of detection errors are determined for an optimal self-organized receiver of recurrent signals of unknown form at the (m-M)-th stage of the receiver under the condition that μ false alarms and ℓ correct detactions of signal pulses occurs throughout the m-l preceding stages. It is shown that the Neumann-Pearson optimizing criterion corresponds best to the problem to be solved the Neumann-Pearson optimizing criterion corresponds best to the problem to be solved the neumann-Pearson optimizing criterion corresponds best to the problem to be solved the Neumann-Pearson optimizing criterion corresponds best to the problem to be solved the Neumann-Pearson optimizing criterion corresponds best to the problem to be solved to since a large weight of false alarms should be given to the initial stage of self-since a large weight of false alarms should be given to the initial stage of self-since a large weight of false alarms should be given to the initial stage of self-since a large weight of false alarms should be given to the initial stage of self-since a large weight of false alarms should be given to the initial stage of self-since a large weight of false alarms should be given to the initial stage of self-since a large weight of false alarms should be given to the initial stage of self-since a large weight of false alarms should be given to the initial stage of self-since a large weight of false alarms should be given to the initial stage of self-since a large weight of false alarms should be given to the initial stage of self-since a large weight of false alarms should be given to the initial stage of self-since a large weight of false alarms should be given to the initial stage of self-since a large weight of false alarms should be given to the initial stage of self-since a large weight of false alarms should be given to the initial stage of self-since a large weight of false alarms should be given to the initial stage of self-since a large weight of false alarms should be

Card 1/1 11h

UDC: 621.391.133

ACC NR. AR6026477

SOURCE CODE: UR/0274/66/000/004/A004/A004

AUTHOR: Fleysher, S. M.

TITLE: Reception of multi-position recurring signals of unknown shape

SOURCE: Ref. zh. Radiotekhnika i elektrosvyaz', Abs. 4A28

REF SOURCE: Tr. Uchebn. in-tov svyazi. M-vo svyazi SSSR, vyp. 26, 1965

TOPIC TAGS: signal reception, signal noise separation, communication

ABSTRACT: The reception of recurring signals having several unknown shapes is considered. A multi-position communication system may be kept in mind. The signals of the same shape are defined as $f(t) = af_1(t \pm T)$; the noise is assumed to be additive, stationary, and normal with a zero mathematical expectation. A block diagram of the system is described in detail, and the probabilities of erroneous decisions in detection are determined. Slightly modified formulas can be used for the case of non-equally probable signals. One figure. Bibliography of 4 titles. L. S. [Translation of abstract]

SUB CODE: 09, 17

Card 1/1

Unc: 621.391.133

ACC NR: SOURCE CODE: UR/0274/66/000/008/A005/A005 AR6035206 AUTHOR: Fleysher, S. M. TITLE: Total probabilities of error detection of a self organizing receiving device and characteristics of the process of self organizing SOURCE: Ref. zh. Radiotekhnika i elektrosvyaz, Abs. 8A33 REF SOURCE: Tr. Nauchno-tekhn. konferentsii Leningr. elektrotekhn. in-ta svyazi, vyp. 2, 1965, 39-50 منائيم و TOPIC TAGS: probability, error, signal reception, ressiving during riceim-ABSTRACT: Relationships are obtained for determining the total probabilities of error detection of a self-organizing receiving device. Some criteria characterizing the process of self-organizing are introduced in the investigation. Author's summary. [Translation of abstract] [NT] SUB CODE: 17/ UDC: 621, 391, 161 Card 1/1

SHAKHNAZAROV, A.B., professor; FLEYSHER, V.G., assistant.

Sarcoid which simulates sarcown of the skin. Vest.ven.i derm. no.5:
48-49 S-0.53.

(MERA 6:12)

1. Iz kafedry vmntrennikh bolezney Krymskogo meditsinskogo instituta.
(Skin--Tumors)

BONDARRY, N.N., inshener; FLEYSHER, V.O.

Flashing signal device with a breaker employing photoresistors.
Svetotekhnika 2 no.6:19-21 W '56. (MLRA 9:12)

1. Leningraskiy savod elektricheskikh chasov.
(Signals and signaling)

24(5) SOV/56-36-5-57/76 Berlovich, E. Ye., Fleysher, V. G., Breslav, V. I., Preobrazhenskiy, B. K. AUTHORS: The Quadrupole Moment of the Er 168-Nucleus TITLE: (Kvadrupol'nyy moment yadra Er 168) Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1959, PERIODICAL: Vol 36, Nr 5, pp 1589-1590 (USSR) The 80 kev level of Er 168 formed in the K-capture in Tu 168 ABSTRACT: has already been identified as the first level of the rotation band. Measurements of the lifetime of this level carried out by the authors also permit determination of the quadrupole moment and the deformation parameter of the Er 168-nucleus according to Bohr's formulas of the generalized nuclear model. The authors investigated the weak Tu168-source which they obtained by constant irradiation of tantalum by 660 Mev protons on the synchrocyclotron of the Ob"yedinennyy institut yadernykh issledovaniy (Joint Institute of Nuclear Research) by means of a device already Card 1/3 described in an earlier paper (Ref 4). The coincidence

The Quadrupole Moment of the Er 168-Nucleus

504/56-36-5-57/76

curves obtained are shown by a figure; the two curves correspond to the coincidence of the X-rays accompanying K-capture and of the conversion electrons formed in transitions from the 80 kev level. For the half life of this level $(1.8\pm0.3).10^{-9}$ sec is obtained. By considering the conversion on all shells (the values of the conversion coefficients are taken from references 5 and 6) $T_{\gamma} = (1 \pm \alpha)T_{\rm exp} = (15\pm2.5).10^{-19} {\rm sec}$ is obtained for the radiation half-life; of denotes the total conversion coefficient. The external quadrupole moment Q is found to amount to $Q = (7.6\pm0.6).10^{-24} {\rm cm}^2$, and the deformation parameter: 0.32 ± 0.03 . This value, which was determined from lifetime, agrees well with that determined from Coulomb excitation. There are 1 figure and 7 references, 4 of which are Soviet.

ASSOCIATION:

Leningradskiy Fiziko-tekhnicheskiy institut Akademii nauk SSSR (Leningrad Physico-Technical Institute of the Academy of Sciences, USSR)

Card 2/3

FLEYSHER, V. G.

"On the Problem of the Prehypertension Condition." Cand Med Sci, Crimean Medical Inst, Simferopol, 1953. (RZhBiol, No 5, Nov 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (11)

SOL Sum. No. 521, 2 Jun 55

S/120/62/000/002/027/047 E032/E414

AUTHOR:

Fleysher, V.G.

TITLE:

Determination of the efficiency of electron

multipliers without measuring small particle fluxes

PERIODICAL: Pribory i tekhnika eksperimenta, no.2, 1962, 115-119

The usual methods of measuring the efficiency of TEXT: photomultipliers involve the determination of the (low) current to the first dynode. In the present method this type of measurement is unnecessary. The method involves the determination of three quantities namely: (1) the average amplitude due to a single electron ejected from the photocathode; (2) the average amplitude of the output pulses (at the collector) and (3) the secondary emission coefficient at the first dynode. The theory of the method is developed and is based on the assumption that the reduction in the efficiency is due to (1) the statistical nature of the photo-effect and the secondary emission effect, and (2) the necessity of introducing a discriminator in order to cut off noise (low amplitude pulses). The method is suitable for use with monochromatic particles. Card 1/2

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413320012-5"

S/120/62/000/002/027/047 E032/E414

Determination of the efficiency ...

It turns out that in the low energy range rating the relationship between the average amplitude and the energy in the case of scintillation counters is nonlinear. There are 3 figures.

ASSOCIATION: Fiziko-tekhnicheskiy institut AN SSSR

(Physicotechnical Institute: AS USSR)

SUBMITTED: July 28, 1961

Card 2/2

34170

S/048/62/026/002/004/032 B101/B102

24.6210

AUTHORS:

Badenko, I. I., Berlovich, E. Ye., and Fleysher, V. G.

TITLE:

Slow electrons in the β -decay of P^{32}

PERIODICAL:

Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya,

v. 26, no. 2, 1962, 197-201

TEXT: The ionization of the atomic shell in the β -decay of P^{32} was examined. Slow electrons were recorded by a louver-type electron

multiplier (EM) with 18 CuBe-alloy dynodes (amplification factor $\sim 10^5$). multiplier (EM) with 18 CuBe-alloy dynodes (amplification factor $\sim 10^5$). β -particles were recorded with an anthracene crystal, the scintillation pulses of which were fed to a photoelectric multiplier (PEM) through a pulses of which were fed to a photoelectrons was determined by means light pipe. The energy of ionization electrons was determined by means of a retarding field. The pulses of EM and PEM were fed to a gate circuit with a time resolution of 0.5 μ sec. The measurements were made at 1.10⁻⁵ mm Hg. Sources: (1) a monomolecular cetyl phosphate source

at $1 \cdot 10^{-9}$ mm Hg. Sources: (1) a monomolecular cetyl phosphato sources; (activity ~ 0.003 µc per cm², layer thickness on collodion film < 50 µg·cm⁻²);

Card 1/# 3

刘170 S/048/62/026/002/004/032 B101/B102

Slow electrons in the...

Card 2/

(2) a source obtained by boiling down a solution containing PO_4^{3-} and PO_3^{-} ions, enriched with P32 according to V. N. Nefedov et al. (Radiokhimiya, 1, 236 (1959)) (activity ~ 0.7 µc, layer thickness <10 µg·cm⁻²). Coincidences of beta particles with slow electrons (<10 ev) were observed with both sources (Fig. 2). No coincidences took place when the active surface of the source faced the crystal. They did not change if the distance between the source and the first dynode was extended to 25 cm. Hence, there were no negative ions, but only ionization electrons knocked out of the outer shell. The M-electrons of phosphorus participate in the chemical binding with the four oxygen atoms of cetyl phosphate. Four σ bonds and one π bond are formed. $Z_{\mbox{eff}}\!<\!5.4$ is found when allowing for o-electron shielding and for the K- and L-shell electrons. The probability of outer shell ionization follows therefrom, calculated on the basis of hydrogen-like protons >3.5 % (experimental finding: 9 %). Electrons of more than 10 ev were not observed. Hence, W. < 1 %, which differs from A. B. Migdal's results (Zh. eksperim. i teor. fiz., 10, 207 (1951)). The data allow the contribution of field-induced emission to be

34170 \$/048/62/026/002/004/032 B101/B102

Slow electrons in the ...

estimated. Ye. L. Feynberg (Dokl. AN SSSR, 23, 778 (1939)) is mentioned. There are 2 figures and 14 references: 4 Soviet and 10 non-Soviet. The four most recent references to English-language publications read as follows: Boehm, F. W., Wu, C. S., Phys. Rev., 93, 518 (1954); Starfelt, N. Cederlund, J., Phys. Rev., 105, 241 (1957); Miskel, J. A., Perlman, M. L., Phys. Rev., 94, 1683 (1954); Schwartz, H. M., J. chem. Phys., 21, 45 (1953).

ASSOCIATION: Fiziko-tekhnicheskiy institut im. A. F. Ioffe Akademii nauk SSSR (Physicotechnical Institute imeni A. F. Ioffe of the Academy of Sciences USSR)

Fig. 2. Number of β^- e coincidences as a function of the stopping potential. (1) Monomolecular source. (2) Source obtained by evaporation. The scale of the ordinate axis differs for (1) and (2). (3) Number Ne_T of thermal electrons (emitted from tungsten wire) passing through the barrier grids as a function of the grid potential.

Legend: abscissa: v_{stop} ; ordinate: v_{coinc} and $v_{\text{e}_{\underline{T}}}$ in arbitrary units.

Card 3/4 2

S/120/62/000/005/032/036 E075/E436

AUTHORS: Badenko, I.I., Fleysher, V.G.

TITLE: Monomolecular source p32

PERIODICAL: Pribory i tekhnika eksperimenta, no.5, 1962, 179-180

A possibility was investigated of preparing a monomolecular source of a known structure with weakly bounded A monoester of cetyl alcohol and orthophosphoric acid containing p32 was prepared and spread on the surface of water contained in a Langmuir trough. The monomolecular layer formed was compressed by an "oil piston" of castor oil. The monolayer was then transferred onto a collodion film held in a frame. area occupied by the monolayer on the water surface decreased under the action of the "oil piston" by an amount equal to the area of the monolayer deposited on the collodion film. investigated the activity of sources obtained by a single or multiple deposition of monolayer, by placing the collodion films in a liquid scintillator, where the absolute activity was measured in 4TT-geometry. For the original activity of standard orthophosphoric acid of about 1 m curie/mg for P, monomolecular sources were obtained with the activity of 0.003 m curie per 1 cm2. Card 1/2

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413320012-5"

Monomolecular source p32

S/120/62/000/005/032/036 E075/E436

The molecular area for one molecule in the monolayer was found to be about $100~\mathrm{A}^2$. The method permits the attachment of active atoms to solid surfaces by relatively "thin threads". The sources obtained in this way may be utilized for experiments with recoil nuclei and soft electrons. There is 1 figure.

ASSOCIATION: Fiziko-tekhnicheskiy institut AN SSSR

(Physico-technical Institute AS USSR)

SUBMITTED: July 28, 1961

Card 2/2

CONTRACTOR OF THE PROPERTY OF

BADENKO, I.I.; BERLOVICH, E.Ye.; FLEYSHER, V.G.

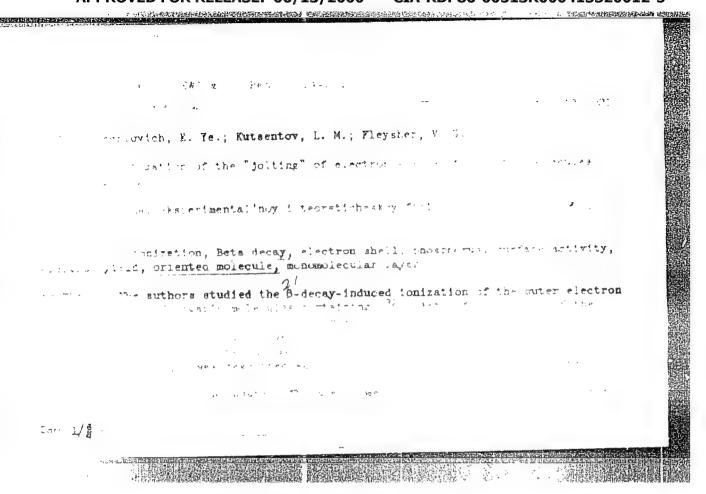
Slow electrons in 6 -decay of p³². Izv. AN SSSR. Ser. fiz. 26 no.2:197-201 F '62. (MIRA 15:2)

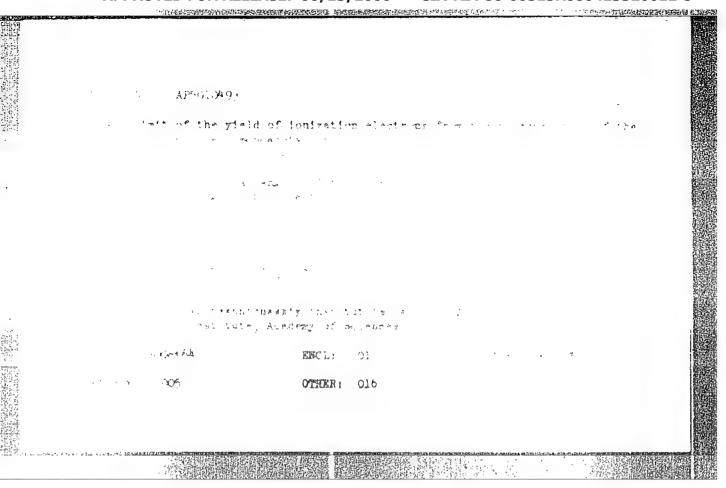
1. Fiziko-tekhnicheskiy institut im. A.F.Ioffe AN SSSR.
(Beta rays-Decay)
(Phosphorus-Isotopes)
(Electrons)

FLEYSHER, V.G.

Reducing the background of random coincidences by means of consecutive pulse selection. Prib. i tekh. eksp. 8 no.5:112-113 S-0 '63. (MIRA 16:12)

1. Fiziko-tekhnicheskiy institut AN SSSR.





L 22896-66 EWT(1)/EWT(m)/EWA(d)/T IJP(c) AT

ACC NR: AP6006873 SOURCE CODE: UR/0181/66/008/002/0616/0619

AUTHOR: Fleysher, V. G.

ORG: Physicotechnical Institute im. A. F. Ioffe, AN SSSR, Leningrad (Fizikotekhnicheskiy institut AN SSSR)

TITLE: Range and probability of emission of slow electrons produced when Beta particles pass through a hydrocarbon medium

SOURCE: Fizika tverdogo tela, v. 8, no. 2, 1966, 616-619

TOPIC TAGS: Beta particle, electron emission, Beta interaction, phosphorus compound, hydrocarbon, probability

ABSTRACT: The article deals with the "jolt" electrons which can be emitted in the radioactive decay of P³², the theory of which was described by the author elsewhere (with I. I. Badenko and E. Ye. Berlovich, Izv. AN SSSR ser. fiz. v. 26, 197, 1962). The "jolting" of the electron shell during radioactive decay is used in this experiment to determine the probability of passage of the emitted slow electrons through C₁₆H₃₃OPO(OH)₂₅ The hydrocarbons form long chains of molecules with surface-active properties; which can be deposited layer by layer and thus control the distance from the beta emitter to the surface. This makes it possible to

Card 1/2

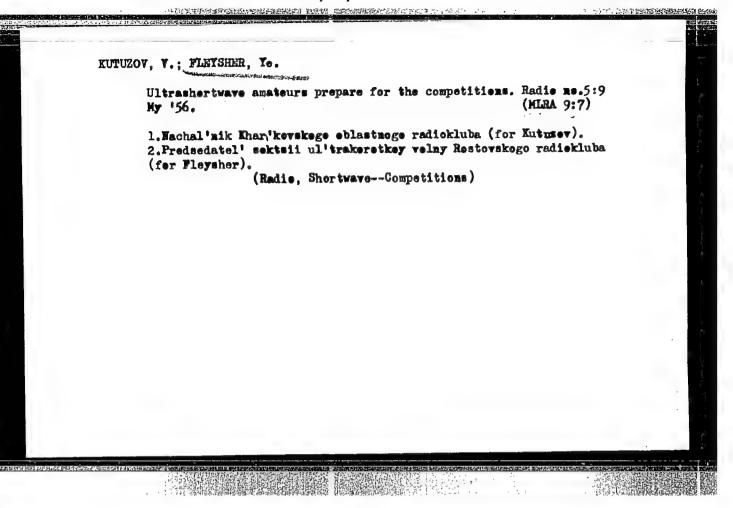
L 22896-66

ACC NR: AP6006873

locate the P³² at a specified distance from the surface and observe the slow electron outside the source. An expression is given for the probability of observing the slow electron outside the source when a beta particle is emitted at a specified angle to the surface, and the components of the probability are measured in terms of the coincidences of the beta particles (registered by a scintillation detector) and the slow electrons (registered with a multiplier with open input). The probability of passage through the potential threshold on the surface is found to be 0.65 ± 0.11. Orig. art. has: 2 figures and 4 formulas.

SUB CODE: 20/ SUBM DATE: 29Jun65/ ORIG REF: 004/ OTH REF: 002

Card 2/2 BLC



· 日本人は一般の場合の時間は現場をお買い機能を開き、関係を提供の過去している。

Let's improve the organization of marketing research. Sov.torg
34 no.3:12-16 Mr '61.

(Marketing research)

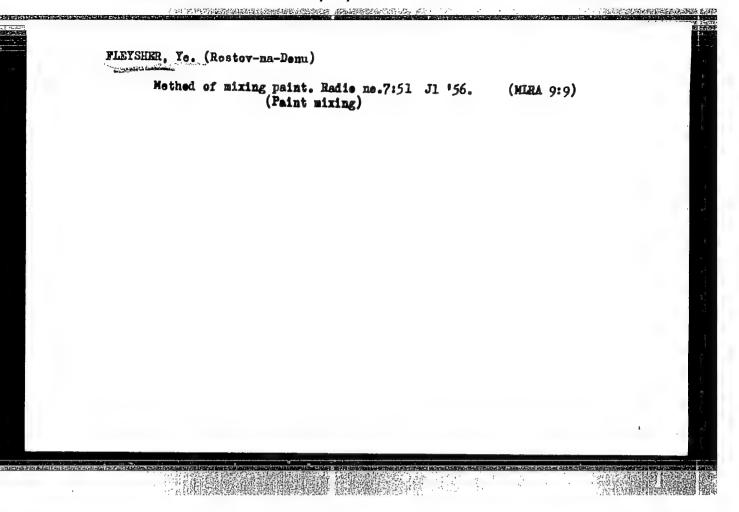
Problems t	hat await sol	ution. So	v. torg. 35 g industry)	no.3:10-13	Mr MIRA 15:3)	
					•	

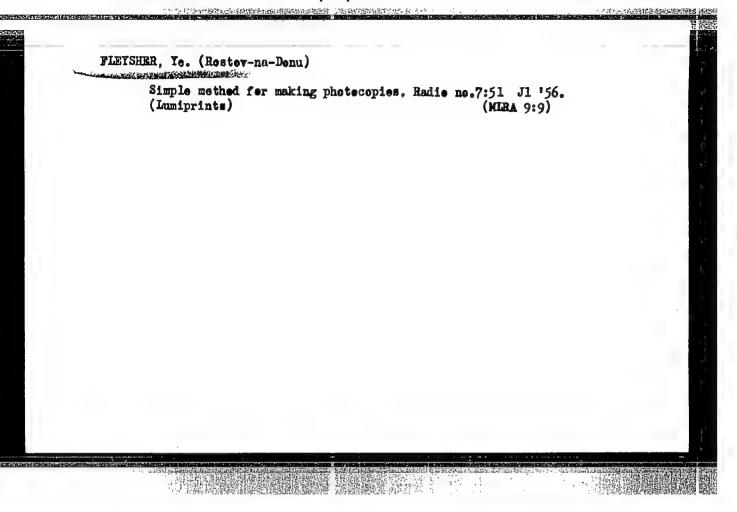
FLEYSPMAH, Yeav.

Sensitivity of the adrenal cortex to exogenous ACTH in patients having had a proloned treatment with corticosteroid hormones.

Trudy TSIU 77:44-48. '65. (MIRA 18:9)

1. III kafedra terapii (zav. deystvitel'nyy chlen AMN SSSR prof. I.A. Kassirakiy) TSentral'nogo instituta usovershenst-vovaniya vrachey.





107-57-1-59/60

AUTHOR: Fleysher, Ye. (Rostov-na-Donu)

TITLE: Steel Wire for a Soldering Iron. Experience Exchange (Obmotka dlya payal'nika

iz zhil stal'nogo trosa. Obmen opytom)

PERIODICAL: Radio, 1957, Nr 1, p 64 (USSR)

ABSTRACT: As nickel-chrome wire is often unavailable in Soviet rural areas, the author suggests using steel wires unwoven from a stranded steel rope, for an electric soldering iron. He reports 3 years of successful experience with such a remodeled

soldering iron.

AVAILABLE: Library of Congress

Card 1/1

4人亦用於於配析的於此種的理學的 医结合的联络

107-57-4-40/54

AUTHOR: Fleysher, Ye. Ya. (Rostov-na-Donu)

TITLE: Restoration of a "Moire" or a "Frost"Finish. Experience exchange (Vosstanovleniye pokrytiy "muar" ili "moroz." Obmen opytom)

PERIODICAL: Radio, 1957, Nr 4, p 48 (USSR)

ABSTRACT: The dusty surface of a device that has a "moire" or a "frost" finish should be wiped with a dry piece of cloth and then with a piece of cloth dipped in a transformer or spindle oil. The excess oil should be removed from the surface by a pad dipped in gasoline. A solution of celluloid in acetone can be used as a lacquer dust protection.

Card 1/1

NEDOPEKIN, G.K., inzh.; TRUBIKHIN, M.G., kand.ekon.nauk; FLEYSHMA, F.M., ekonomist.

For a thorough study of economic problems ("Business accountability and railroad finance." Reviewed by G.K.Nedopekin, M.G.Trubikhin, F.M.Fleishman). Zhel.dor.transp. 42 no.3:92-96 Mr '60.

(MIRA 13:6)

(Railroads--Finance)

(MERA 7:6)

FLEYSHMAKHER, A., inshener.

Transportation of loose flour in trucks. Avt.transp. 32 no.4:6-7 Ap *54.

1. Promsernoproyekt.
(Flour-Transportation) (Motor trucks)

. CON TEN CONTROL SERVICE CONTROL CONT

FLEYSHMAKHER, A.M.

Operations of gas-regulator stations. Metallurg 6 no.3:36 Mr 161. (MIRA 14:5)

1. Master gazoregulirovochnykh punktov prirodnogo gaza zavoda imeni Il'icha.

(Gas, Natural) (Gas governors)

SHAMARDIN, N. N.; GORSHKOV, V. A.; FLEYSHMAKHER, E. G.

A SOUTH AND A STREET OF THE PROPERTY OF THE PR

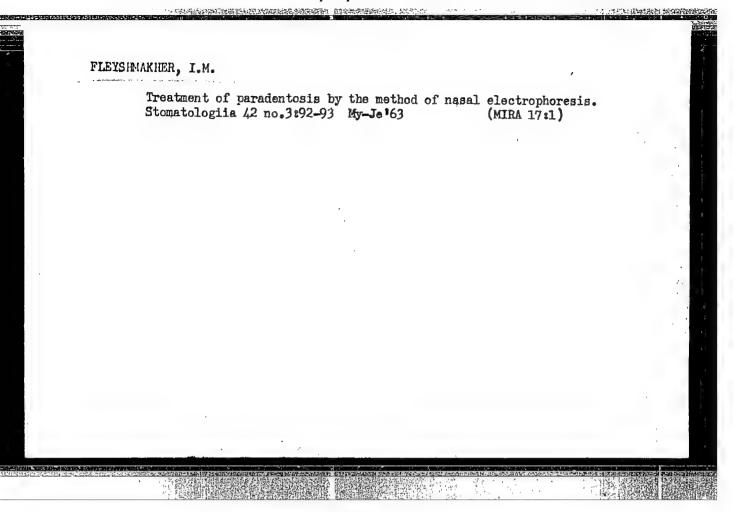
"Public gas supply and the operation of municipal gas distribution systems in the USSR."

Report to be presented at the 9th Intl. Gas Conference, The Hague, 1-4 Sept 1964.

FLEYSHMAKHER, I.M.

Use of a quick setting plastic in applying prosthesis to an edentulous maxilla with a defect in the hard palate originating from a gunshot wound. Stomatologiia 39 no.6:58-59 N-D '60. (MIRA 15:1)

1. Iz sanatoriya "Rodina" v Kislovodske (glavnyy vrach V.S.Vasil'yeva). (PLASTICS IN MEDICINE) (DENTAL PROSTHESIS)



(MIRA 10:4)

FLEYSHMAN, A. We increase the output of whole milk products. Moloch. prom. 18 no.4:

Constitution of the contract o

1. Kirovogradskiy molochnyy savod.
(Dairy products)

37 157.

IVANOV, Mikolay Vasil'yevich; MALYUTIN, Mikolay Kus'mich; PLNYSHMAN, Abram
L'yevich, BURSHTMYN, I.I., retsenzent; LOHODIN, P.V., retsenzent;
MCROZOV, A.N., retsenzent; LYUBOVICH, Yu.O., kandidat ekonomicheskikh
nauk, redaktor; TRKKIN, A.V., tedaktor izdatel'stva; UVAROVA, A.F.,
tekhnicheskiy redaktor.

[Supply of materials and equipment in machinery manufacturing] Material'no-tekhnicheskoe snabzhenie v mashinestroenii. Moskva, Gos.nauchnotekhn.izd-vo mashinostroit.lit-ry, 1956. 275 p.

(Machinery industry)

IVANOV, N.V.; MALYUTIN, N.K.; FLEYSHMAN, A.L.; KARPOV, P.P., inzh., retsenzent; SAUTIN, I.A., ekonomist, retsenzent; SHUBNIKOV, A.K., prof., doktor tekhn.nauk, red.; TKOCHUN, A.I., red.izd-va; UVAROVA, A.F., tekhn.red.

[Supplying industries of regional economic councils with materials and equipment] Material'no-tekhnicheskoe snabzhenie promyshlennosti sovnarkhozov. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1961. 307 p. (MIRA 14:6)

FLEYSHMAN, B.A., dotsent

Results of experimental coal loading without the use of bunkers in some Kuznetsk Basin mines. Trudy NIIZHT no.25:47-74 161. (MIRA 16:11)

OGORODNIK, N.I. (g.Novosibirsk); FLEYSHMAN, B.A., dotsent (g.Novosibirsk);
KRESTENKO, N.I. (g. Novosibirsk)

Traffic flow organization on the Tomsk Railroad. Zhel.dor. transp.
43 no.2:28-33 F '61. (MIRA 14:4)

1. Nachal'nik sluzhby dvizheniya Tomskoy dorogi (for Ogorodnik).
2. Glavnyy inzh.sluzhby dvizheniya Tomskoy dorogi (for Krestenko).
(Railroads-Rolling stock) (Railroads-Traffic)

MARIN, N.V. (Novosibirsk); BESHKETO, V.K., kand.tekhn.nauk (Novosibirsk); FLEYSHMAN, B.A., dotsent (Novosibirsk)

THE CHARLEST SERVICE STREET, S

Important features of the preparation for mass transportation of grain. Zhel.dor.transp. 44 no.6:33-37 Je '62. (MIRA 15:8)

1. Glavnyy inzh. gruzovoy sluzhby Zapadno-Sibirskoy dorogi (for Marin). 2. Novosibirskiy institut inzhenerov zheleznodo-rozhnogo transporta (for Fleyshman).

(Siberia-Grain-Transportation) (Railroads-Freight)

TRUBNIKOV, I.Ye.; OGORODNIK, N.I.; FLEYSHMAN, B.A., dotsent; MOSKALEV, P.I., dotsent

What are the advantages of concentrated classification operations? Zhel. dor. transp. 46 no.7:32-37 Jl '64.

1. Zamestitel' nachal'nika Zapadno-Sibirskoy dorogi (for Trubnikov). 2. Novosibirskiy institut inzhenerov zhelezno-dorozhnogo transporta (for Fleyshman, Moskalev).

KUPRIYANOV, A.P., inch. (Novosibirsk); FLEYSHMAN, B.A., dotsent (Novosibirsk)

What delays the turnover of the approach tracks to the railroad administration? Zhel. dor. transp. 46 no.10:40-44 0 164. (MIRA 17:11)

1.14 2012[引导的控制 4.0] 1884日本

1. Nachal'nik planovo-ekonomicheskogo atdela Zapadne-Sibirskoy dorogi (for Kupriyanov). 2. Novosibirskiy institut inzhenerov zheleznodorozhnogo transporta (for Fleyshman).

AUTHOR:

台世子与州州出北地

FLEYSHMAN B.S.

109-6-6/17

TITLE:

On an Optimum Detector with log I Characteristics for the Detection of Weak Signals in Noise. (Ob optimal nom detektore s log Io-kharakteristikoy dlya obnaruzheniya slabogo signala pri

naliohii shuma, Russian)

PERIODICAL:

Radiotekhnika i Elektronika, 1957, Vol 2, Nr 6, pp 726-734

(U.S.S.R.)

ABSTRACT:

The calculation of the characteristics of an optimum $\log I_0$

detector is carried out.

Similar papers by other authors contain inaccurate calculations, as, when decomposing log $I_o(x)$ they take only the quadratic term into account as e.g. with W.W.PETERSON, T.G.BIRDSAIL, W.G.FOX: "The theory of signal detectability", TIRE J.T.1954, 4, 171-212 and D.MIDDLETON: "Statistical criteria for detection of pulsed carriers in noise", J. of Appl. Phys. 1953. 24, 4, 371-391. J.J.BUSSGANG, and D. MIDDLETON in "Optimum sequential detection of signals in noise", TIRE, J.T. 1955, 1, 3, 5, 5-18, refer to their unpublished work and mention only the correct final value of the parameters of an optimum log Io detector

Card 1/2

- CONTROL OF THE PROPERTY OF THE PROPERTY SET OF THE PROPERTY SET

On an Optimum Detector with log $I_{\rm O}$ Characteristics for the Detection of Weak Signals in Noise.

without giving any proof. This result was obtained by them under more special conditions than was the case with the present paper. (With 1 Illustration and 2 Slavio References).

ASSOCIATION:

Not given

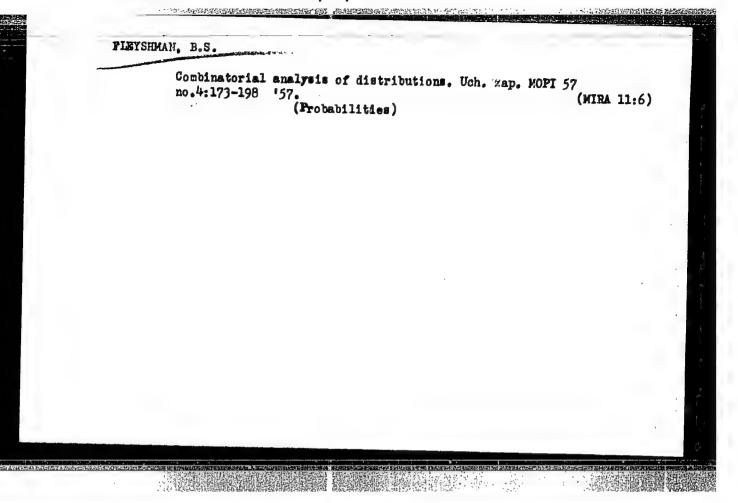
PRESENTED BY:

23 • 7 • 1956

SUBMITTED: AVAILABLE:

Library of Congress

Card 2/2



FLEYSHMAN, B. S.

A. E. Basharinov, B. S. FLEYSHMAN, "Use of the sequential analysis method in apparatus to detect weak signals in noise." Scientific Session Devoted to "Radio Day", May 1958, Trudrezervizdat, Moscow, 9 Sep. 58

The effictiveness of using sequential analysis methods in apparatus to detect weak signals in a noise background is analyzed.

Calculations are made of the average duration of the accumulation in coherent signals and also for incoherent systems in the cases of signals of constant intensity and fluctuating signals.

The economy of the delay time to present information is determined in comparison with the accumulation region for a single-threshold analyzer.

An experimental method is developed to measure the distribution function of the duration of the accumulation process with a sequential type analyzer.

Experimental results of measurements of the average duration of the accumulation and of the variance of the duration in a binary processing system are presented.

FLEYSHMAN, B. S.

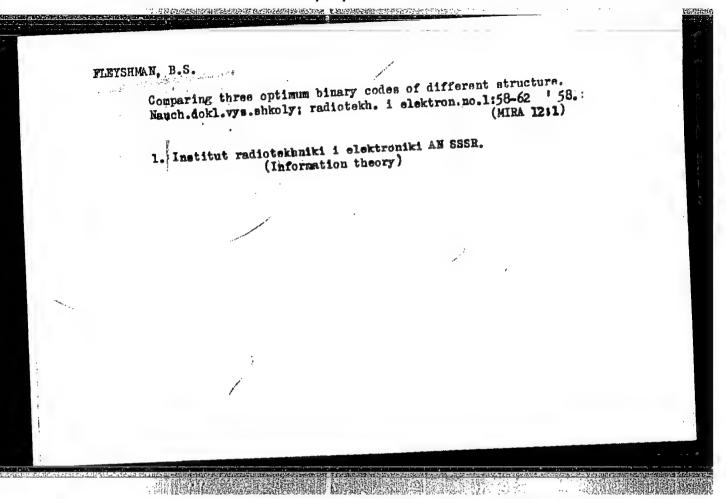
B. S. FLEYSHMAN, "Construction of a code optimum in the Shannon sense in the simplest case of a binary channel with noise." Scientific Session Devoted to "Radio Day", May 1958, Trudrezervizdat, Moscow, 9 Sep. 58

A code, optimum in the Shannon sense, is constructed in the case of a binary symmetric channel. The probability is estimated of obtaining an optimum code by stochastic sampling and the probability of correct decoding for finite n is also estimated.

FLEYSHMAN, B.S.

Optimum-code structure in the simplest case of a binary channel. Nauch.dokl.vys.shkoly; radiotekh. i elektron.no.1:16-21 '58. (MIRA 12:1)

1. Institut radiotekhniki i elektroniki AN SSSR. (Information theory)



B

5/044/60/000/012/010/014 c 111/ C 333

AUTHORS:

Fleyshman, B. S. Linkovskiy, G. B.

TITLE:

The estimation of the maximal possible value of the entropy of an unknown distribution which is represen-

ted by some theoretical moments

PERIODICAL:

Referativnyy shurnel, Matematika, no. 12, 1960, 130, abstract 14133. (Sb. tr. Wanchno-tekhn. o-vo. radiotekhr. i elektrosvyssi im. A. S. Popova, 1958,

vyp. 2, 87-99

The authors, pose the problem of calculating the minimum of the differential entropy of a variable which is given on the interval (a,b) under fixation of some of its moments. The problem is reduced to the solution of a system of transcendental equations with the usual methods of the calculus of variations. The cases, where 1.) the first moment is given, 2.) b = co and the two first moments are given, 3.) a = - 00, b = - 00 and a moment of arbitrary order is given, are separately considered. An explicit answer is obtained in the last case.

[Abstracter's note: Complete translation.] Card 1/1

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413320012-5"

MUTEOR: Stolyarov, A.G. All-hom Session marking "sadio Day" (Teasquinays marchings a sasiys, powyshichemays "Day Railor) DECIDILISTS TO Session marking "sadio Day" (Teasquinays marchings a sasiys, powyshichemays") Thur Railor To Session as hald in Masco, decrease to Session, 25 in the field of indomatical made a session, 25 in the field of indomatical made a session, 25 in the field of indomatical made a session, 25 in the field of indomatical made a session, 25 in the field of indomatical made a session, 25 in the field of indomatical made a session, 25 in the field of indomatical made a session as a session as a session, 25 in the field of indomatical made a session as a sessio	FLEX	≤.H in£	1W 213	7	
AUTHOR: TITLE: FRICODICAL ANSTRACT: Card 2/7		Stolyarov, All-Union mauchnaya Izvastiya 1956, Er	rated May 15-17, 1956, an All assaton was held to Moscow, de sasociation for hade-before and extractions. 200 papers were in the field of information to a destrontes, and maintained a field of the field of information along the poles of the protection along at the protection intermedication and that had be the protection into a field whith the communication into a field whith resolvential intermedication and the field of the protection and the field of	n "the Transmission System of Libertic Signa. Ditimal Code of Entandon-Fano." L. Tanina, 11. Libertical Statement for Determining Weak In Soldiss", and L. M. The Use of the Gueer's Benerical Resistance in a Mon-Definite Stanl Price Force Resistance in a Mon-Definite Stanl Price Force Resistance and Statement spoke on the Stanl For Cresting System and Statement spoke on the Stanl For Cresting System and Statement Spoke on the Stanl Fith a Simple Base" in the fall of esting Seventian a spoke on the Stanl Fith a Simple Base" in the fall of esting Seventian a Stanland Stanland Stanland System Stanland In A Stanland Stanland Lifelian of the Stanland In A Stanland Stanland Lifelian of the Stanland Force Resistance of Stanland Lifelian of the Stanland In M. Predentical and Lifelian of the Stanland Force Resistance of Stanland Lifelian of the Stanland Force Resistance of Stanland Mediated According of the Stanland Force Resistance of Stanland Stanland Force Resistance Stanland Force Resistan	
	-	AUTEOR: TITLE: FIRIODICAL	ABSTRACT:	Card 2/7	1 4 4 5 5 7 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1

SOV-109-3-4-15/28

AUTHORS: Fleyshman, B. S. and Linkovskiy, G. B.

TITIE: Maximum Entropy of an Unknown Discrete Signal with a Given First Moment (Maksimum entropii neizvestnogo diskretnogo raspredeleniya pri zadanii pervogo momenta)

PERIODICAL: Radiotekhnika i Elektronika, 1958, Vol 3, Nr 4, pp 554-556 (USSR)

ABSTRACT: It is assumed that a random function ξ described by the matrix on p 554, where x_i are given and $p_i > 0$ such that the sum of p fulfils Eq.(1), has a known first a₁ ; this is expressed by: moment,

$$a_1 = \sum_{i=0}^{i=n-1} x_i p_i$$
 (2)

The entropy of this random function is given by Eq.(3). For Card 1/2

2000年1月1日 - 1000年1日 - 1000年1日 - 1000年1月1日 - 1000年1月 - 1000年

30V-109-3-4-15/28

Maximum Entropy of an Unknown Discrete Signal with a Given First Moment

a given a_1 the entropy has a maximum when the function satisfies Eqs.(7) and (8). If the discrete distribution is such that the terms x_i are given by arithmetic progression, as represented by Eq.(10), the maximum entropy for $n \to \infty$ can be expressed by Eq.(22) or Eq.(24). There are 6 references, 4 of which are Soviet and 2 English.

SUBMITTED: January 3, 1957

1. Radio signals--Mathematical analysis 2. Functions--Applications

3. Arithmetic progressions--Applications

Card 2/2

SOV-109-3-6-19/27

AUTHORS: Basharinov, A. Ye. and Fleyshman, B. S.

TITIE: Efficiency of the Sequential Analysis Method in the Devices for the Detection of Weak Signals in Noise (Ob effektivnosti metoda posledovatel nogo analiza v ustroystvakh obnaruzheniya slabykh signalov v shumakh)

PERIODICAL: Radiotekhnika i Elektronika, 1958, Vol 3, Nr 5, pp 835-839 (USSR)

The paper gives the calculated data which characterise ABSTRACT: the efficiency of various sequential analysers in the range of small errors and the data on the experimental investigation of the distribution of the duration of the analysis. The results are shown in Figs.1, 2 and 4. Fig.1 shows a typical detection characteristic $D(\rho)$ for $F = 10^{-4}$ and where F is the probability of a false indication (error), is the probability of a correct detection of D a signal of expected intensity, is the expected signalnoise ratio and ρ is the unknown actual value of the signalnoise ratio. The characteristic of the average duration of the number of sampling tests for $D_1 = .5$ and $F = 10^{-4}$ is shown in Fig.2. An experimental curve of $N(\rho)$ is shown Card 1/2

SOV-109-3-5-19/27

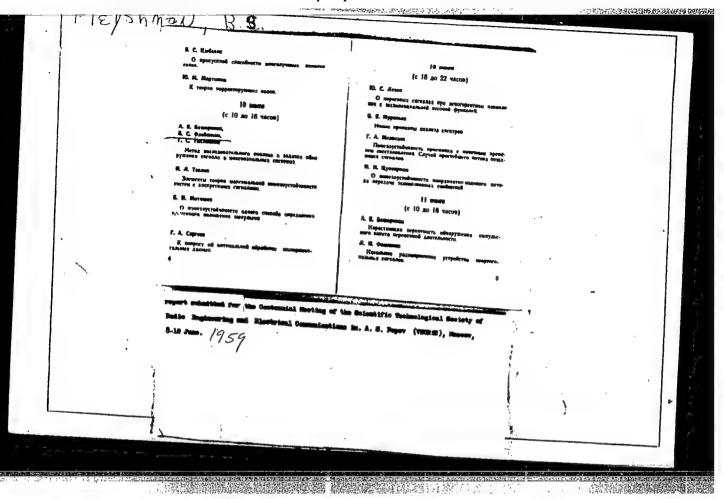
Efficiency of the Sequential Analysis Method in the Devices for the Detection of Weak Signals in Noise

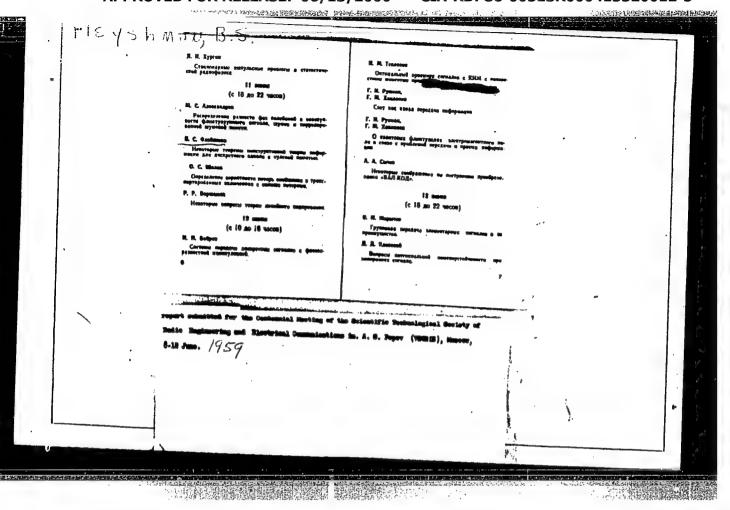
in Fig.4 together with the calculated results; the crosses denote the experimental points. The measurements were done by means of the equipment shown in the block schematic of oy means of the equipment shown in the block schematic of Fig. 3 consisting of: 1) a noise-voltage generator, 2) a limiter, 3) a modulating pulse generator, 4) a computing device, 5) an integrating counter, 6) an audio-frequency generator, 7) a standard-duration pulse generator and 8) 2 control counters.

The authors asknowledge the help extended to them by ters. The authors acknowledge the help extended to them by the Corresponding Member of the Soviet Academy of Sciences Yu. B. Kobzarev. The paper contains 4 figures and 4 English references.

SUBMITTED: October 24, 1957.

1. Radio signals - Detection 2. Noise (Radio) 3. Pulse generators -Applications 4. Radio receivers - Signal to noise ratio Card 2/2 Mathematics - Applications





16.7000 (1403)

32471 \$/044/61/000/010/037/051 C111/C222

AUTHORS:

Fleyshman, B.S., Linkovskiy, G.B., and Sindler, Yu.B.

TITLE:

On the question of the optimal statical estimation of the characteristics of a communication channel with a multi-ray propagation

PERIODICAL: Referativnyy zhurnal. Matematika, no. 10, 1961, 29, abstract 10 V 178. ("Sb. tr. Nauchno-tekhn. o-vo radiotekhn. i elektrosvyazi im. A.S. Popova", 1959, vyp 3, 34-42)

TEXT: The authors consider the same situation as in the preceding paper of the authors (abstract 10 V 176); the notations of this abstract are used but another problem is given. The actual value of λ is assumed to be known. An estimation for the dispersion of the "multiplicative" component of the noise $\mathscr{L}_i(t)$ is sought. Under the same assumptions as in

the mentioned paper the authors use the method of the maximal credibility and the momentum method for the determination of the estimation of dispersion. The case where not all processes $\ll_i(t)$ are equally

Card 1/2

32171 On the question of the optimal statical ...C111/C222

distributed and there exists a process $\alpha_1(t)$ the dispersion of which is greater than for all other $\alpha_i(t)$ is considered separatedly. Some examples are considered. The remarks on the unclearness of the formulations made in abstract 10 V 176 (as well as the remark of the reviewer with respect to this abstract) hold also for the present paper. [Abstracter's note: Complete translation.]

Card 2/2

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413320012-5"

32469

16.7000 6,9000

S/044/61/000/010/035/051 C111/C222

AUTHORS:

Siforov, V.I., Fleyshman, B.S., and Linkovskiy, G.B.

TITLE:

The optimal reception of a parameter which is transferred through a channel with noises containing multiplicative, additive and time components

PERIODICAL: Referativnyy zhurnal. Matematika, no. 10, 1961, 29, abstract 10 V 176. ("Sb. tr. Nauchno tekhn. o-vo radiotekhn. i elektrosvyazi im. A.S. Popova", 1959, vyp. 3, 3-17)

TEXT: The authors consider the transfer of the signal $f_{\lambda}(t)$ ($f_{\lambda_{i}}(t)$ is a not random known function of the time depending on the parameter λ) through a multiray channel at the outlet of which the signal

$$y(t) = \sum_{i=1}^{k} \alpha_i(t) \cdot f_{\lambda}[t - \tau_i(t)] + y(t)$$

is obtained, where $\gamma(t)$, $\alpha_i(t)$, $\tau_i(t)$ are independent random processes which are called the additive, multiplicative and time compo-Card 1/3

The optimal reception of a parameter

32469 S/044/61/000/010/035/051 C111/C222

nents of the noise. It is assumed that the processes $\mathscr{L}_i(t)$ and $\widetilde{\mathscr{L}}_i(t)$ for different indices i are equally distributed and that k>>1. It is demanded that the parameter λ can be estimated in virtue of the realization y(t) on a certain time interval. From y(t) the authors go over to values taken in discrete lattice points $t_1 \cdots t_n$ and they assume that the values of each of the considered processes are independent in

that the values of each of the considered processes are independent in the points t_i and t_j (i \neq j). The for the estimation it is proposed to

use the method of the maximal credibility and the momentum method. The equation for the maximal credibility is written, where the conditions under which it is deduced are formulated very unexact so that the limits of applicability of the obtained results remain unclear. Beside of general remarks on the known properties of the estimations of maximal credibility the authors give concrete examples in which further properties of these estimations are discussed.

Reviewer's remark: The authors assume that the independence of the values Card 2/3

32469
The optimal reception of a parameter ... S/044/61/000/010/035/051

of the processes $\mathcal{L}_{i}(t)$, $\mathcal{T}_{i}(t)$, $\mathcal{I}(t)$ is guaranteed if the distances $t_{i+1} - t_{i}$ are chosen greater than the minimal correlation interval of the considered processes. It is evident that for this aim $t_{i+1} - t_{i}$ must be chosen at least greater than the maximal one of these intervals. [Abstracter's note: Complete translation.]

Card 3/3

6.9500

25010

S/044/61/000/003/011/014 C111/C333

AUTHOR:

Fleyshman, B. S.

TITLE:

Construction of an optimal code in the sense of Shannon in the simplest case of a binary channel with noises

PERIODICAL:

Referativnyy zhurnal, Matematika, no. 3, 1961, 10, abstract 3V51. (Sb. tr. Nauchno-Tekhn. o-vo radiotekhn. i elektrosvyazi im. A.S. Popova, 1959, vyp 3,59-95)

TEXT: Up to the recent time only the existence of codes has been proved which are optimal in the sense of Shannon, i. e. which in presence of noises allow the transmission of $M \le 2^{\infty}$ chains of n terms with probability of correct decoding $P \to 1$ $(n \to \infty)$, where c is the carrying capacity of the charnel. In the article the constructive for the first time (for the case of a binary symmetric channel with transforms the input signals 0,1 with probability q independently of each other into the same output signals 0,1 and with probability q into the opposite output signals 1,0. Here the conditional Card 1/4

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413320012-5"

Construction of an optimal code . . . C111/C333 channels of considered type these maximum number is not greater than $2^n[1-h(p)]$, where $h(p) = -\log_2[p^p(1-p)^{1-p}]$. In the paper an asymptotically optimal code is constructed, for which as set representing every input chain x the set of all output chains y is chosen, for which the number of symbols $(\beta_1, \dots, \beta_n)$ which differ from the corresponding symbols $(\alpha_1, \dots, \alpha_n)$ of the input chain x, is not greater than $[n(p+\xi)]$, where square brackets mean the integer part of the number and ξ a certain small number. It is proved that the distinguishable input chains can be obtained for such a code by chossing random $M = 2^n[1-2h(p+\xi)] - h(p-\xi)]$ chains and then by removing a certain part of them. It is proved that the number of distinguishable input chains in the proposed code satisfies the inequality $N \gg M$ $(1-2^{-n})$ with a probability greater than the probability of correct decoding. Therefore, if a sufficiently Card 3/4

high probability of correct decoding is guaranteed, then one obtains with an even higher probability a code asymptotic to the optimal one. It is shown that for a relatively large $p \le 0.5$ the distinguishable input chains can be simply obtained by random selection without removing a part of the chosen chains. For very small $p = \lambda/n$ the asymptotically optimal code. The combinatorial method developed by the author is used in the paper (R Zh Mat. 1958, 7934). The fundamental proofs (R Zh Mat, 1959, 7203).

Note of the reviewer: The review of R. Dobrushin (R Zh Mat, 1959, 7203) of the afore-mentioned paper does not reproduce what is essential in constructive structure of an asymptotically optimal code.

[Abstracter's note: Complete translation.]

Card 4/4

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413320012-5"

AUTHOR: Basharinov, A.Ye.,

SOV/109-59 -4-2-1/27

and Fleyshman, B.S. TITIE:

Application of the Sequential Analysis Method in the Systems with Rayleigh Signal Intensity Fluctuations (Primeneniye metoda posledovatel nogo analiza v sistemakh dvukhznachnoy peredachi pri releyevskikh fluktuatsiyakh intensivnosti signalov)

PERIODICAL: Radiotekhnika i Elektronika, 1959, Vol 4, Nr 2,

ABSTRACT: It is assumed that the intensity of the messages

fluctuates in accordance with the Rayleigh distribution law and that the background noise is of the Gaussian Taw and that the background noise is of the Gaussian type. The transmission is such that passive intervals are present. The probability density for the voltage at the output of a linear detector in the absence of a signal (that is during an interval) is in the form:

where $u = \frac{v}{\sqrt{v^2}}$

The probability density for the output voltage in the presence of the signal is given by:

Application of the Sequential Analysis Method in the Systems with Rayleigh Signal Intensity Fluctuations

$$W_{ssh}(u) = \frac{2u}{1+q^2} e^{-\frac{u^2}{1+q^2}}$$
 (B)

where q² is the signal-to-noise ratio. If a matched filter is used, a voltage ui corresponds to each elementary message. The evaluation of an ensemble of independent voltages ul...ul...un... which correspond to various messages is performed by forming a probability coefficient L, and comparing its value with two limits A and B at each n-th step; L is given by Eq.(1) while A and B are defined by Eq.(2), where D1 is the probability necessary for a correct reproduction of the signal of a given amplitude and F is the permissible Rayleigh fluctuations of the signals having an expected intensity q1, the logarithm of the probability coefficient is given by Eq.(3). The boundaries of the expressed by Formula (4). According to Wald (Ref.4) the

Card 2/5

SOV/109-59-4-2-1/27

Application of the Sequential Analysis Method in the Systems with Rayleigh Signal Intensity Fluctuations

calculation of the probability characteristics and of the average analysing time (that is the average number of the tests) requires the determination of a parameter h(q,q1). This parameter can be determined from Eq (1) which leads to Eq (6). The solution of Eq (6) can be found graphically. The characteristic of a correct reproduction of the signal, D(q), and the average number of the tests, Ncp(q), are determined from Equations (7) and (8) where z is given by Eq (9). Typical characteristics of D and Ncp are shown in Fig.2 and 3. The efficiency of the method of successive analysis can be represented by coefficients which indicate the relative duration of the tests. In practical systems of sequential analysis, it is necessary to limit the duration of the tests. In this case it is important to know the distribution function of the test termination figure. An estimate of the lower probability limit of the test termination can be done by the method described by Wald (Ref 4) or by employing the Chebyshev inequality which is expressed by formula (11). In this, N denotes the upper number

Card 3/5

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413320012-5"

"分野的对外的对人的"新疆"的特别的特殊的第三人称形式的

SOV/109-59-4-2-1/27

Application of the Sequential Analysis Method in the Systems with Rayleigh Signal Intensity Fluctuations

of tests and of is the spread of the number of tests. When F lor (1-D) l, the spread can be determined from Eq (12). For F l this leads to Eq (16) while for (1-D) l this results in Eq (19). Consequently Formula (11) can be written as Eq (20). The calculated results of the estimate of the lower boundary of the probability that the tests would be terminated at a figure lower than the given one are illustrated in Fig.4. The curves denoted by I were evaluated from the Chebyshev inequality, while curves designated with II were evaluated from the Wald formulae (Ref 4). From the above analysis it is concluded that the method of sequential analysis can lead to an increased efficiency of the binary systems provided that an elementary

Card 4/5

SOV/109-59-4-2-1/27

Application of the Sequential Analysis Method in the Systems with Rayleigh Signal Intensity Fluctuations

message is transmitted as a train of identical elements. There are 4 figures, 1 table and 7 references of which 3 are Soviet and 4 English.

SUBMITTED: 27th May 1958

Card 5/5

S/194/61/000/010/045/082 D256/D301

AUTHOR:

Fleyshman, B.S.

TITLE:

Constructive proof of the Shannon's theorem in a

simple binary case (Thesis)

PERIODICAL:

Referativnyy zhurnal. Avtomatika i radioelektronika, no. 10, 1961, 39, abstract 10 V369 (Tr. Vses. sovesh-chaniya. po teorii veroyatnostey i matem. statistiki,

1958, Yerevan, AN ArmSSR, 1960, 66-71)

TEXT: The Shannon theorem is proved for a simple type of binary channel with zero data panel. The existence of an optimum code is demonstrated and to obtaind it an algorithm is proposed. Abstracter's note: Complete translation

Card 1/1

16.6100 (1031, 1253)

30135 S/194/61/000/007/060/079 D201/D305

AUTHORS:

Basharinov, A.Ye., Fleyshman, B.S. and Tyslyatskiy,

G.S.

TITLE:

The method of consecutive analysis in problems of

signal detection in multi-channel system

PERIODICAL:

Referativnyy zhurnal. Avtomatika i radioelektronika, no. 7, 1961, 7, abstract 7 I58 (V sb. 100 let so dnya rozhd. A.S. Popova, H., AN SSSR, 1960, 76-78)

The structure is considered of the algorithm of sequential analysis in detecting m orthogonal signals (S). The algorithm consists in forming m channels which produce particular values As of the probability coefficient for the s-th form of S with consequent group weighting and comparison with the threshold. In the case of two alternatives the solution of the problem of S being present is reached with $\lambda \geq D/F$, that of S being absent with $\Lambda < (1 - D)/(1 - F)$ where D - the probability of correct detection, F - probab-

Card 1/2

30135 **S/194/61/**000/007/060/079 D201/D305

The method of consecutive ...

ility of false detection. The approximate expression for the average number of sampling has the following forms: in the absence of S

$$\overline{n}_{sa}$$
 (m) $\simeq \overline{n}_{sa}$ (1) + k $\frac{\ln m}{\overline{z}_{sa}}$

and in the presence of S

$$\overline{n}_g$$
 (m) $\simeq \overline{n}_g$ (1) + D $\frac{\ln m}{\overline{z}_g}$

where \overline{n}_{sa} (m), \overline{n}_{s} (m), \overline{n}_{sa} (1) - the average number of samplings with one and m channels respectively, \overline{z}_{sa} , \overline{z}_{s} - the average value of the algorithm of probability ratio at the first stage of sampling with m = 1, k - coefficient depending on allowable probability of false solutions. The evaluation of the average duration of sampling processes was carried out on a digital computer. The values thus determined were 0.5 < k < 2 for a probability of the signal being transmitted of 10%. 5 references. Abstracter's note: Complete translation 10%

6,9000

82866 \$/108/60/015/008/003/006 B012/B067

AUTHOR:

Fleyshman, B. S., Member of the Society

TITLE:

On the Construction of the Transmission of a Parameter by the Optimum Decoding Method in the Presence of Nonadditive Noises

PERIODICAL:

Radiotekhnika, 1960, Vol. 15, No. 8, pp. 25-32

TEXT: V. A. Kotel'nikov (Ref. 1) solved the problem of an optimum reception of the parameter for a channel with normal additive fluctuation noises. The paper (Ref. 2) presents an optimum solution of the same problem for a more general case of nonadditive noises. The optimum decoding of the signal at the outlet is understood as optimum reception of the parameter. In the present paper, only the case studied in Ref. 2 is dealt with. Here, concrete and deliberately nonoptimum types of modulation are studied, and the problem of a reliable transmission of the maximum possible number of parameter values is solved. As is the case in the paper (Ref. 2) a channel with a multiwire propagation

Card 1/3

On the Construction of the Transmission of a Parameter by the Optimum Decoding Method in the Presence of Nonadditive Noises

Card 2/3

82666 \$/108/60/015/008/003/006 B012/B067

is studied in the presence of noises with an additive $\nu(t)$, a multiplicative $\alpha(t)$, and a time component $\tau(t)$. These components are independent of the signal and of one another. Process $\lambda(t)$ with the known probability characteristics is assumed as a source for the channel investigated. Only one time interval in which $\lambda(t) = \lambda_m = \text{const}$ is studied. The task consists in determining this constant value λ_m which is one of the possible values known before the transmission at both channel ends, out of a number M of such values. As in the paper (Ref. 2) only that case is dealt with where λ is multiplicatively contained in $f_{\lambda}(t)$ in the form of $X = f_{\lambda}(t) = \lambda f(t)$, formula (4). It is assumed that the time interval T is much larger than the maximum correlation interval Δt of all three noise components. Thus, the study of the momentary values $n = \frac{T}{\Delta t}$ of the initial process Y = Y(t) warrants the independence of the random quantities Y_j (j = 1, 2, ..., n). Here, only two concrete types of the signal f(t) are studied: formula (9). The problem is solved by iteration methods. In the following, the numbers M and n for the two types of

Contact by the property of the contact of the conta

On the Construction of the Transmission of a Parameter by the Optimum Decoding Method in the Presence of Nonadditive Noises 82866 S/108/60/015/008/003/006 B012/B067

signals are given a rough lower bound. One of the possible principal schemes of decoding for optimum parameter reception is shown and explained by a Fig. The construction of this decoding system is described in brief. For certain types of modulation it warrants a reliable transmission of the maximum possible number of parameter values in the presence of additive noises. There are 1 figure and 5 Soviet references.

V

SUBMITTED:

May 11, 1959

Card 3/3

S/109/61/006/007/002/020 D262/D306

16,8000 (1121,1132,1344) AUTHOR:

Fleyshman, B.S.

TITLE:

Transient regime of memory loading of a sybernetic installation for statistical pattern reproduction

PERIODICAL: Radiotekhnika i elektronika, v. 6, no. 7, 1961, 1041 - 1048

TEXT: A particular problem in cybernetic installations for signal and picture reproduction with a background of noise, is that of analyzing the probability of the duty state of the memory whose over-filling, because of its finite capabity, is undesirable. In the present article, making a wide range of assumptions, the author obtains average dispersions and distributions of the number of busy memory elements in a transient regime. The assumptions are as follows: The cyternetic installation has an infinite number M . oo of memory elements, to whose input a sequence of independent calls is applied. This sequence (stream) is characterized by

Card 1/5

Transient regime of ...

S/109/61/006/007/002/020 D262/D306

a random function x(s) equal to the number of calls in a period of time $t(s < t \leqslant s+h)$, where h > 0 - is the step of quantisized time. It is further assumed that x(s) and x(s') are independent random variables for any $s \neq s' \geqslant 0$. A function v(s) corresponds to every instant S, whose function determines the time of service of the call happening at instant s, counted from the moment of its appearance to the moment of end of the service, v(s) is assumed to be independent of x(s') for all s and $s' \geqslant 0$ and has the distribution function

$$P/(\nu/(s)/$$

First the case of discrete observation of a really continuous flow of calls s=jh, $\nu(s)$ in (i, j=0, 1, 2, ..., h=const>0) is considered when the start and ending of calls and their service are undiscernable if between the intervals $t(s < t \le s + h)$. Let every call be statistically analyzed (serviced) in a separate memory element until a decision of this element is reached as to whether it busy at moment t and its distribution $T(\mu(t) - m)$ according to Card 2/5

24863. S/109/61/006/007/002/020. D262/D306

Transient regime of ...

 $P(v(s) < t) = F_{g}(t)$ is derived as

$$P(\mu(t) = m) = P_{\Lambda(t)}(m)$$

where $\Lambda(t)$ is the parameter given by

$$\Lambda(t) = E\mu(t) = D\mu(t) = \sum_{s=1}^{t} E\kappa(s) [1 - F_s(t-s)],$$
 (7)

If $\varkappa(s)$ has a Poisson distribution with parameter $\lambda(s) = E\varkappa(s) = D\varkappa(s)$. If the number of memory elements of the cybernetic installation is finite, $M = \text{const} > \Lambda(\infty)$, then $\mu(t)$ has the Poisson distribution of

$$P(\mu(t) = m) = P_{\Lambda(t), M}(m) = \begin{cases} \frac{\Lambda^{m}(t)}{m!} / \sum_{r=0}^{M} \frac{\Lambda^{r}(t)}{r!} & \text{for apper } 0 < m < M, \\ 0 & \text{for apper } m > M. \end{cases}$$
(8)

which shows that the Erlang formula applies both to a discrete nonstationary Poisson stream and to an arbitrary time distribution of Card 3/5

Transient regime of ...

8/109/61/006/007/002/020 D262/D306

service (the probability of memory over-filling is equal to that of the refused call). In practice the homogeneous case is said to be of most interest when distributions $\kappa(s) = \kappa$ and $\nu(s) = \nu$ do not depend on time. In this case for the homogeneous Poisson stream, $\mu(t)$ has the Poisson distribution with parameter of

$$\Lambda(t) = E\mu(t) = D\mu(t) = E\pi \sum_{i=1}^{n} \{1 - F_i(s)\} < \Lambda(\infty) = E\pi E\nu, \qquad (11).$$

In conclusion, the analysis is made of the case when the processing of the stream of calls is continuous, i.e. when $h \longrightarrow 0$ and the stream is an ordinary one

$$P(x(s) = 1) = \lambda(s) h + o(h),$$

$$P(x(s) > 1) = o(h),$$

from which it follows that

Card 4/5

$$\tilde{\Lambda}(t) = \int \lambda(s) \left[1 - F_s(t-s)\right] ds,$$

(21)

Transient regime of ...

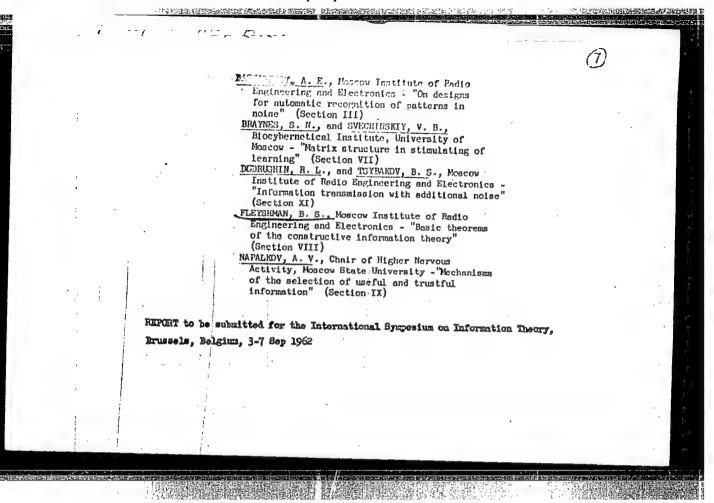
S/109/61/006/007/002/020 D262/D306

which means that the distribution has the Posson character with parameter $\widetilde{\lambda}(t)$. For a finite number $M\gg \Lambda(t)$ of memory elements $\mu(t)$ the limited Poisson distribution with parameter $\widetilde{\lambda}(t)$ is obtained. In two appendices the theorems are given which are required for the proof of equations within the text. There are I figure and II references: 9 Soviet-bloc and 2 non-Soviet-bloc. The references to the English-language publications read as follows: N. Wax, Signal to noise improvement and the statistics of track population, J. Appl. Phys., 1955, 26, 5, 586; A. Wald, Sequential analysis, N.Y., 1947.

SUBMITTED: June 15, 1960

Card 5/5

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413320012-5"



BASHARINOV, A.Ye.; FLEYSHMAN, B.S.; MONIN, A.S., doktor fiz.mat. nauk, retsenzent; ZUBAKOV, V.D., kand. tekhn. nauk, retsenzent; IVANUSHKO, N.D., red.; SVESHNIKOV, A.A., tekhn. red.

· Control of the cont

[Methods of statistical sequential analysis and their application in radio engineering] Metody statisticheskogo posledovatel'nogo analiza i ikh radiotekhnicheskie prilozheniia. Moskva, Izd-vo "Sovet-skoe radio," 1962. 352 p. (MIRA 15:6) (Mathematical statistics) (Radio engineering)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413320012-5"

FLEYSHMAN, B. S.

"Statistical theory of finite automata reliable functioning in case of noises" report submitted for the Intl. Symposium on Relay Systems and Finite Automata Theory (IFAC), Moscow, 24 Sep-2 Oct 1962.

The county to an experience with the control of the county of the county

S/271/63/000/003/016/049 A060/A126

AUTHORS:

Barashinov, A.Ye., Fleyshman, B.S.

TITLE:

Certain cybernetic problems of statistical separation of informa-

tion flows

PERIODICAL:

Referativnyy zhurnal, Avtomatika, telemekhanika i vychislitel'naya tekhnika, no. 3, 1963, 60, abstract 3A342 (Tr. VI Vses. soveshchaniya po teorii veroyatnostey i matem. statistike, 1960. Vil'nyus,

Gos. izd-vo polit. i nauchn. lit. LitSSR, 1962, 195 - 199)

TEXT: The authors consider the statistical problems connected with the filtering of information flows, such as data, on running parameters from several control points, data on the intensity of element glow on an oscillograph screen, data for selective control of production consisting of several identical production lines, etc. The data bear a statistical character and therefore the problem consists in the fact that one has to establish reliably their actual nature through statistics. Two formulations of problems of this kind are given: the classical statistical formulation, in which within a limited time it is required to perform a decision between several statistical hypotheses and the probability

Card 1/2

Certain cybernetic problems of statistical

S/271/63/000/003/016/049 A060/A126

of errors is admitted, and the cybernetic formulation, in which on the basis of comparing the realized information flow over time interval to each of a existing messages it is required to establish - with the smallest possible probability of error - what was the message sent (deterministically specified alphabet), or when the message is determined under the condition of the possibility of a simultaneous existence of several alterable messages with a stochastically specified configuration (stochastically specified alphabet). In the latter case, which is further analyzed in the work, a large number N of measurements is assumed and the presence of a cybernetic instrument with a limited storage capacity $M \ll N$. The operation of the cybernetic instrument consists in transforming the information flow from a multi-dimensional one into a single-dimensional one (periodic scanning of channels); finding the channel requiring additional analysis; accumulation of data from the selected channels found; and the analysis of data and output of results. Further, results are cited relating to the analysis of memory loading, namely: formulae are given, determining the mean value and the dispersion of the number of occupied cells μ (t) at an instant t. The cases of Poisson and Wald input flows, as well as the case when the mean value of $\mu(t)$ is large, are analyzed in greater detail. There are 10 references. [Abstracter's note: Complete translation] Card 2/2

ी	- ,	Fleyshman, B. S. Regular Method for Constructing an	
	74	Optimum (in Shannon's Sense) Code for the Simplest Finary Channel With Noise	263
	53.	Khalfin, L. A. On the Statistical Theory of Spectral Devices	265 ′
	54.	Shkurba, V. V., and N. Z. Shor. Probability Calculation of the Average Time for Completing Arithmetical Operations on Electronic Digital Computers	269
	55.	Yaglom, A. M. Examples of Optimum Nonlinear Extrapolation of Stationary Random Processes	275
	56.	Yaglom, I. M., and Ye. I. Faynberg. Estimates as to the Probability of Compound Events	297
		THEORY OF GAMES AND THEORY OF QUEUES	
	57.	Basharin, G. P. On Exact and Approximate Methods for Calculating the Probability of Losses in Two-Cascade Schemes	307
Ţ.,	Cand	12/17	. 301

	ा राज्यसम्बद्धाः स्थापास्य साम्बद्धाः स्थाप्ताः । स्थापास्य साम्बद्धाः । स्थापास्य स्थापास्य साम्बद्धाः स्थापा स्थापास्य साम्बद्धाः साम्बद्धाः साम्बद्धाः साम्बद्धाः । स्थापास्य साम्बद्धाः । साम्बद्धाः साम्बद्धाः साम्बद्धा	The state of the s
Transactions of the Sixth Co		
-ransactions of the		
the Sixth Co	in e	
	"Herence (Cont)	
36. Bashana		
Probablinov, A. Vo		sov/6371
Problems of the of and	B. S. Pro	- 3/1
riows one Statisti	cal Danieyshman. Some	
36. Basharinov, A. Ye., and Problems of the Statisti 37. Volkonskiy, V. A. Appli Devices 38. Gladysham	Distinguishing	Cybernet 10
Volkonskin "	TITLE OF	Information
Processes . A. Annis		TOTON
Devices to Estimation	cations of the m	195
TOCA	the Acquirect Theory	of Pass
38. Graden	of Measure	nandom
Processes to Estimating Devices 38. Gladyshev. Ye. C	- andt-1	ing
38. Gladyshev, Ye. G. An Int dimensional Stationary Se 39. Glushkov, V. M. V. A.	'Ann . s	
30 Stationary 90	erpolation Problem	501
oy. Glushkov v	quences for	Malte
On the Reliability of Disconsisted of Infinitely.	•	
neliability as No	Valevaki.	203
10. 2 mg	rete And V. S. M.	. 205
Dayaman, R. A	utomata	-Knalevich
of Infinitely Long Communi	Sther.	000
O. Zaydman, R. A. On the Pos of Infinitely Long Communi	contillty of Connect	209
Series All Marianess	Cations Through Treet Tr.	ansmi and
	Lough a Chan	nel Watt
San ico Probab	1714	57.7
nsactions of the 6th Conf. on Probab the Symposium on Distributions in In Sep (60. Vil'nyus Gospolitizdat I	National and Math	
-Vus Wospolitizdat	Inite-Dimensional a matric	al Stations
	SSR, 1962 Los Spaces h	old in twa-
The same and the s	473 p. 250	Coni- VIL Nus,
the Symposium on Distributions in In Sep '60. Vil'nyus Rospolitizdat I	the same and the s	opies printed
and the control of the state of	A TOTAL TO A DESCRIPTION OF THE PARTY OF THE	THE RESERVE AND THE PERSON OF

PHASE I BOOK EXPLOITATION

SOV/6530

Fleyshman, Bentsion Semenovich

Konstruktivnyye metody optimal'nogo kodirovaniya dlya kanalov s shumami (Designing Methods of Optimum Coding for Noisy Channels) Moscow, Izd-vo AN SSSR, 1963. 224 p. 4200 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Institut radiotekhniki i elektroniki.

Resp. Ed.: V. I. Siforov, Corresponding Member, Academy of Sciences USSR; Ed. of Publishing House: V. F. Rzhevskiy; Tech. Ed.: T. V. Polyakova.

PURPOSE: This book is intended for scientists and engineers concerned with problems of optimal coding in noisy communication channels.

COVERAGE: Because the Shannon basic theory of noisy communication channels only suggests the existence of optimal codes but does not reveal their structure, the author describes a new analytical device developed for the purpose of

Card 1/9